

1. METHOD AND APPARATUS FOR
ESTIMATING INTER-VEHICLE
DISTANCE USING RADAR AND
CAMERA

Inventor(s): Tomohiro YAMAMURA

Appl. No.: Unassigned

FIG.1

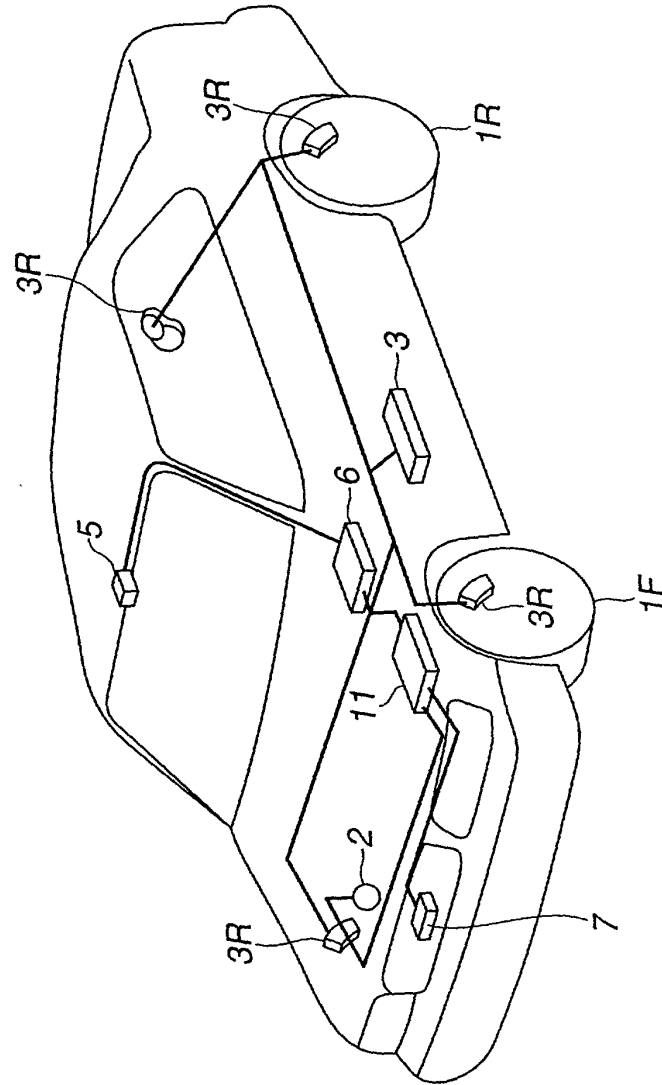


FIG.2

INTER-VEHICLE DISTANCE	0~L2 OR RADAR LOST	L2~L1	L1
DETECTION OF EDGE BY CAMERA	DETECTION OF HORIZONTAL EDGE		NOT PROCESSED
INTER-VEHICLE DISTANCE	CAMERA OUTPUT	LASER RADAR OUTPUT	

FIG.3

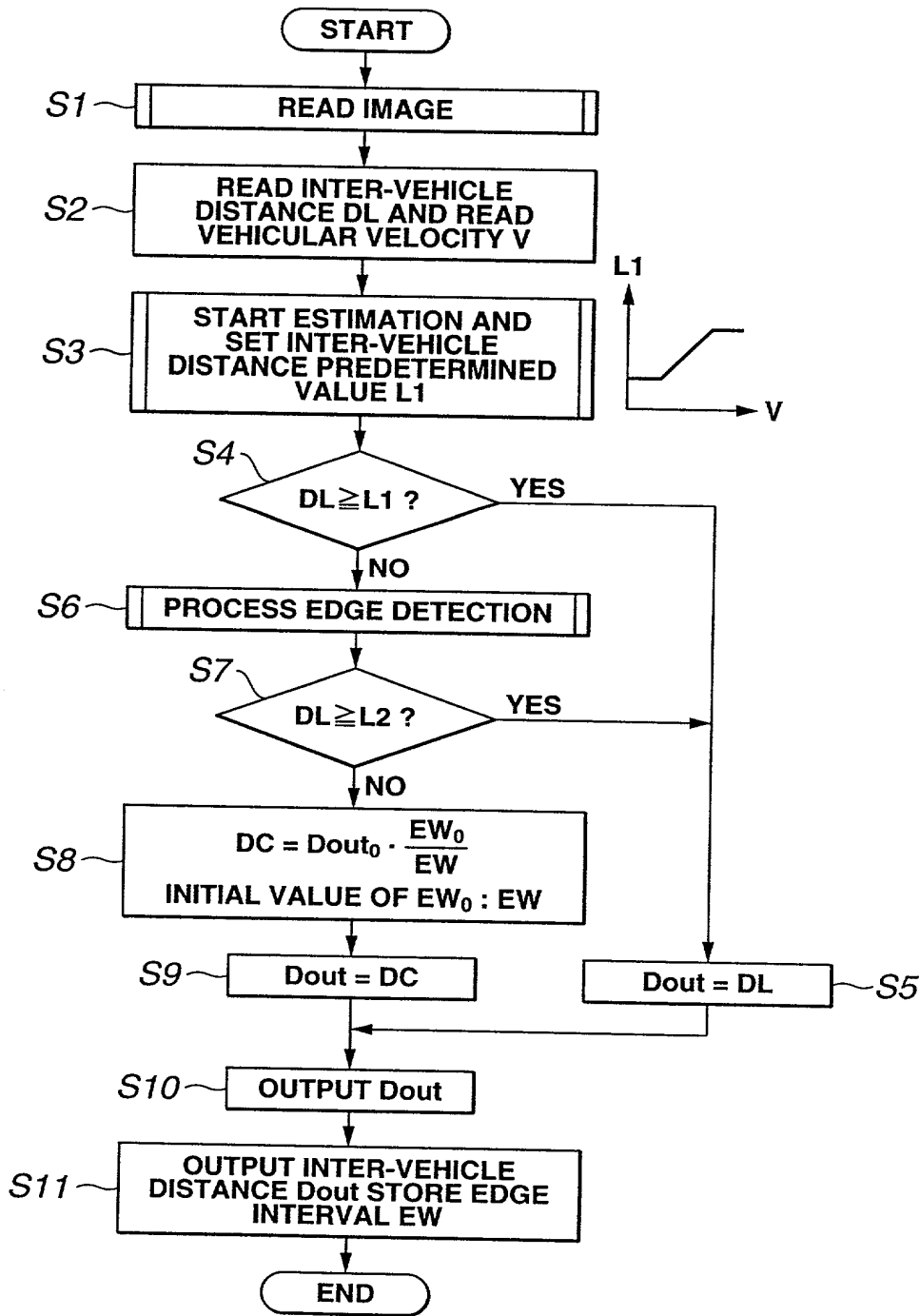


FIG.4

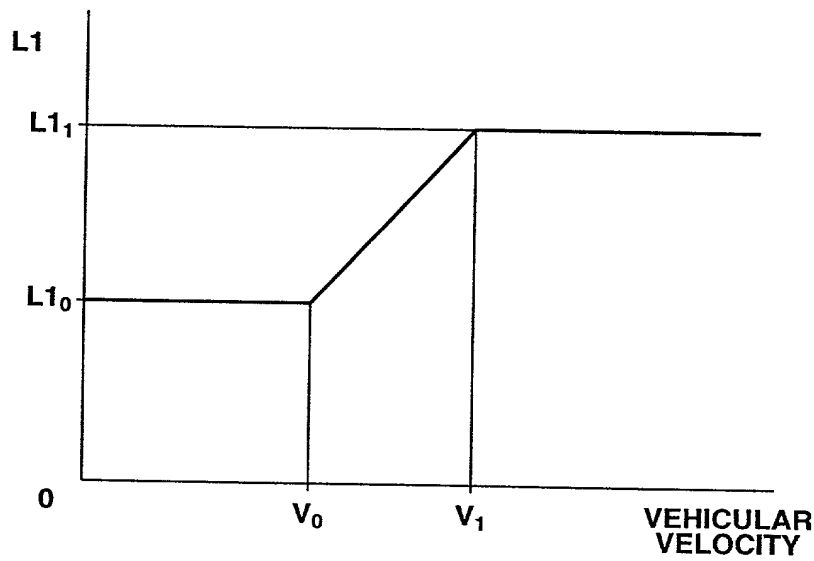
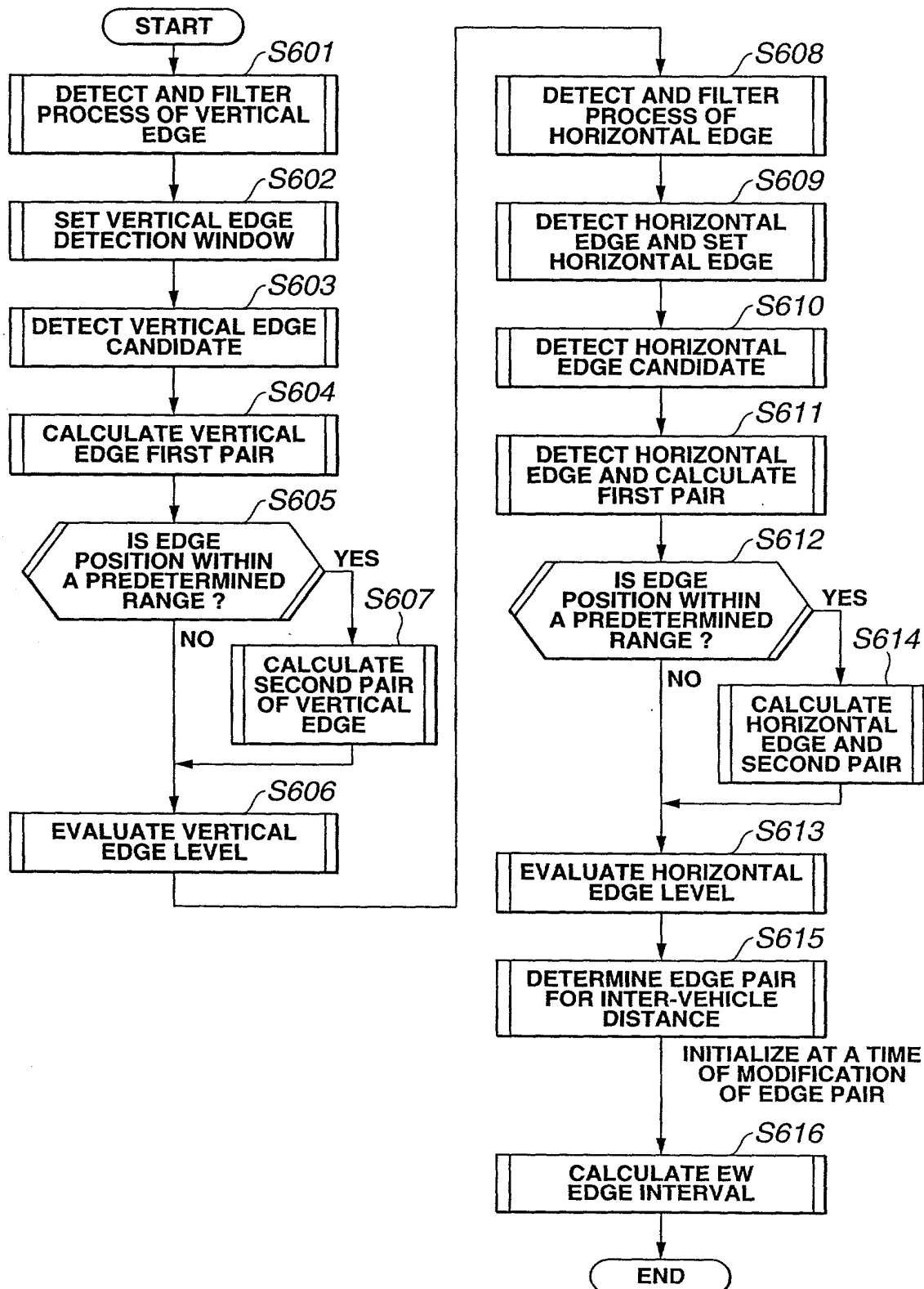


FIG.5



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FIG.6

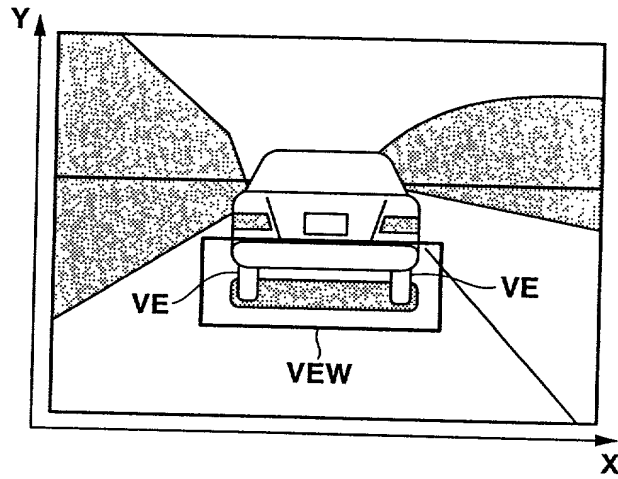


FIG.7

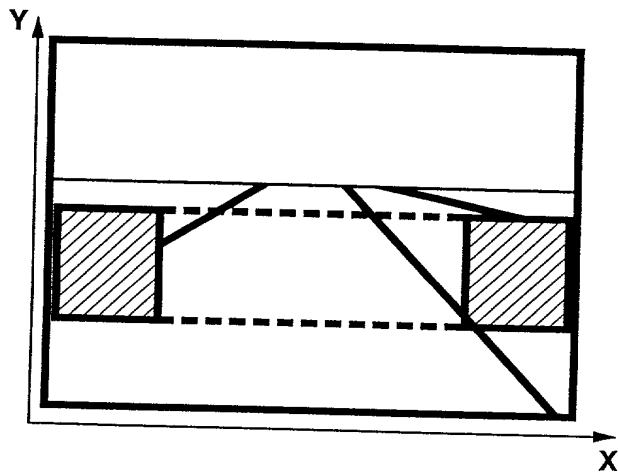


FIG.8

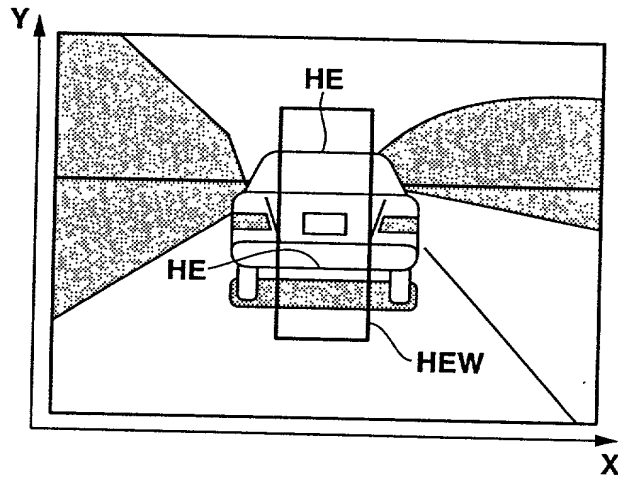
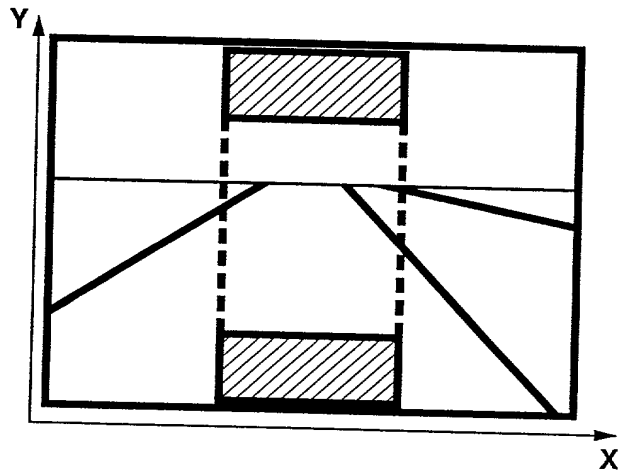


FIG.9





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FIG.11

INTER-VEHICLE DISTANCE	0~L3	L3~L4	L4
EDGE DETECTION BY CAMERA	EDGE DETECTION		
OUTPUT INTER-VEHICLE DISTANCE	OUTPUT MICROWAVE RADAR	OUTPUT CAMERA	NOT OUTPUT

FIG.12

